



CHEMISTRY MEETS INDUSTRY AND SOCIETY

A CREATIVE SHOWCASE CONFERENCE

SALERNO (GRAND HOTEL)

28-30 AUGUST 2019

Scientific Program

Thursday, August 29th 2019

<i>Centro Congressi Grand Hotel Salerno</i>	
Room??	
WS7 – Plastics and Environment	
<i>Conveners: Daniele Caretti, Markus Gahleitner</i>	
<i>Chairperson: Gaetano Guerra</i>	
9:00-9:45	<i>WS7 IL01 – Michael A. R. Meier Renewability is not Enough: Sustainable Synthesis of Biomass-derived Monomers and Polymers</i>
9:45-10:15	<i>WS7 KN01 – Giampaolo Pellegatti How the innovative talent bridges polymerization technology, sustainable trends and customer needs</i>
10:15-10:45	<i>WS7 KN02 – Antonio Protopapa The new challenges in the recycling of plastic packaging</i>
10:45-11:00	<i>WS7 OR01 – Emilia Garofalo, Luciano Di Maio, Paola Scarfato, Antonio Protopapa, Loredana Incarnato Recycling of post-consumer flexible plastic films: a nanotechnology strategy to upgrade the material's properties</i>
11:00-11:30	Coffee break
<i>Chairperson: Eugenio Longo</i>	
11:30-12:00	<i>WS7 KN03 – Armando Galeotti Different ways to close the circularity loop: the perspective of a polymer producing chemical company</i>
12:00-12:15	<i>WS7 OR02 - Haroutioun Askanian, Nicola Schiavone, Sophie Commereuc, Vincent Verney Additive manufacturing and green polymer materials</i>
12:15-12:30	<i>WS7 OR03 – Mariacristina Cocca, Francesca De Falco, Emilia Di Pace, Roberto Avolio, Maria Emanuela Errico, Gennaro Gentile, Maurizio Avella Microplastic Pollution: Sources, Quantitative Evaluation and Mitigation Strategies</i>
12:30-12:45	<i>WS7 OR04 – Valter Castelvetro, Tarita Biver, Alessio Ceccarini, Mario Cifelli, Andrea Corti, Valentina Domenici, Stefania Giannarelli, Jacopo La Nasa, Tommaso Lomonaco, Enrico Manco, Francesca Modugno, Virginia Vinciguerra Tackling the present and future challenges for micro- and nanoplastics quantification and removal from polluted water bodies and related environmental matrices</i>
12:45-13:00	<i>WS7 OR05 – Enrico Carmeli, Davide Tranchida, Dario Cavallo Application of thermal fractionation analysis for recycled polyolefin grades characterization</i>
13:00-15:00	Free lunch break

<i>Chairperson: Antonio Protopapa</i>	
15:00-15:45	<i>WS7 IL02 – Alexandra Albunia, Markus Gahleitner, Susanne Kahlen Polyolefin solutions for a sustainable future</i>
15:45-16:15	<i>WS7 KN04 – Vincent Verney Green plastics degradation and circular economy</i>
16:15-16:30	<i>WS7 OR06 – Federico Bella, Francesca Colò, Giulia Piana, Marisa Falco, Elisa Maruccia, Gabriele Lingua, Lucia Fagiolari, Giuseppina Meligrana, Claudio Gerbaldi Sustainable Matrices and Polymerization Processes for Post-Lithium Batteries</i>
16:30-16:45	<i>WS7 OR07 – Carla Marega Effect of the collector on the mechanical properties of biodegradable and biocompatible PHB@MWCNTs electrospun fibers</i>
16:45-17:00	<i>WS7 OR08– Seif Eddine Fenni, Nacerddine Haddaoui, Orietta Monticelli, Dario Cavallo Renewable and tough poly (L-lactic acid)/polyurethane blend prepared by dynamic vulcanization</i>
17:00-17:15	<i>WS7 OR09 – Raffaella Ferraioli, Luciano Di Maio, Paola Scarfato, Loredana Incarnato Valorization of pulper waste composites reinforced with basalt fiber</i>
17:15-17:30	<i>Final discussion and questions</i>

Poster Session 1 of Thematic Workshops

*WS7 PO01- Miriam Hubera, Vasiliki-Maria Archodoulaki, Markus Gahleitner
Microplastics in aquatic ecosystems: How comparable are literature data?*

WS7 PO02- Pierangiola Bracco, Federica Spina, Chiara Arcolin, G. Cristina Varese, Marco Zanetti

Biodegradation of polyethylene by selected fungal strains

WS7 PO03-Enrico Manco, Tarita Biver, Valter Castelvetro, Andrea Corti , Alessio Ceccarini, Tommaso Lomonaco.

Poly(styrene) and polyolefin micro- and nanoplastics in sandy beach sediments: selective polymer quantification by GPC/fluorescence, and investigation on low MW environmental degradation by-products

WS7 PO04-Virginia Vinciguerra, Valter Castelvetro, Alessio Ceccarini, Andrea Corti, Antonella Petri

PET microfibers as ubiquitous pollutants of waters? A first sensitive and accurate method for their quantification in environmental matrices

WS7 PO05-Maria Voccia, Laura Falivene, Lucia Caporaso

Control of chain walking by tailoring the strength of neighboring group interactions switches polymerization to dimerization catalysis

WS7 PO06-Manohar Golla, Nagendra Baku, Christophe Daniel, Gaetano Guerra, Paola Rizzo

Nanoporous Crystalline forms of Poly(2,6-dimethyl-1,4-phenylene) for Removal of Pollutants from the Environment

WS7 PO07-Stefania Zappia, William Porzio, Silvia Destri, Guido Scavia, Monica Panigati, Luminita Marin, Brindusa Dragoi, Elena Perju, Adina Coroaba, Massimo Marcaccio

CO₂ capture and sequestration by organic polymeric derivatives:two different approaches

WS7 PO08-Odda Ruiz de Ballesteros, Claudio De Rosa, Finizia Auriemma, Rocco Di Girolamo

Isotactic 1-Butene-Ethylene Copolymers from Ziegler-Natta catalysis: Correlation between Microstructure and Formation of the Trigonal Form I

WS7 PO09-Vincent Verney

Circular Economy of plastic multilayer packaging: H2020 Terminus project

WS7 PO10-Babacar Niang, Nicola Schiavone, Haroutioun Askanian, Diène Ndiaye, Vincent Verney

Effects of wood stem powder content on the morphological, rheological and thermomechanical properties of PLA matrix biocomposites

WS7 PO11-Vissia Vitale, Antonio Vecchione, Roberto Pantani, Riccardo Bianchi, Giuseppe Milano, Gaetano Guerra, Sandro Del Giudice

Optimization of PET grades and processing conditions for a lighter mineral water packaging

17:30-
19:00

	<p><i>WS7 PO12-Francesco Prandi, Luca Guerrini, Stefano Cerini, Letterio Giannino, Daniele Caretti, Giovanni Mazzotti, Fiorenzo Parrinello, Fabrizio Pucci, Valentina Fiumi, Chiara Gualandi, Eugenia Sveva Stancari, Maurizio Fiorini</i></p> <p><i>Low molecular weight compounds in polyolefins: a comparative study of different analytical techniques and processing conditions</i></p>
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	<p><i>Grand Hotel Salerno</i></p>
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<p>20:00-22:00</p>	
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	<p><i>Social banquet</i></p>
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